UTILITY
PATENT APPLICA
TRANSMITTAL
ew nonprovisional applications und

UTILITY	Attorney	Docke	I NO.:	19232.0011	<u> </u>		
PATENT APPLICATION First Inve		entor: Andreas Mühe					
TRANSMITTAL (Only for new nonprovisional applications under 37 CFR 1.53(b))		CRYSTAL-GROWING FURNACE, IN PARTICULAR A VERTICAL BRIDGMAN CRYSTAL-GROWING FURNACE OR A VERTICAL GRADIENT FREEZE CRYSTAL-GROWING FURNACE HAVING A JACKET HEATER AND A METHOD OF REGULATING THE HEAT OUTPUT OF THE JACKET HEATER					
	Express	Mail L	abel N	o.: EL99207587	7US_		
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility application contents	ADDRES	SS TO:	:	Mail Stop PAT Commissioner P.O. Box 1450 Alexandria, VA	for F		
Specification [Total Pages 1 (Includes description, claims, and abstrated)	-	6.		D-ROM or CD-R emputer Program		uplicate, large tables or pendix)	
				ACCOMPANYIN	IG A	PPLICATION PARTS:	
2. Drawings [Total Sheets	1]	7.		Copy of Assignm	ent		
		8.	□ 3	7 CFR 3.73(b) S	State	ment (when there is an assig	nee)
3. Oath or Declaration [Total Pages 3]	J	9.	□ F	Power of Attorne	y		
a. Newly executed (original or copy)		10.		English Translati	on D	ocument (if applicable)	
b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 20B		11.	_	nformation Discl 1 page)	osure	e Statement (2 pages)/PTO-1	1449
completed)	4.70		Ø	Copies of IDS Ci	tatior	ns [Total Citations 4]	
4. Application Data Sheet. See 37 CFR 1.76 [Total Pages]		12.	⊠ F	Preliminary Ame	ndme	ent (7 pages)	
Nucleotide and/or Amino Acid Sequence		13.		Certified Copy of priority is claimed		rity Document(s) (if foreign 3 pages)	
Submission (if applicable, all necessary) a. Computer Readable Form (CRF)		14.	□ (Nonpublication F Must attach form	eque PT0	est under 35 USC 122(b)(2)(E O/SB/35 or equivalent).	3)(i)
OR Statement under 37 CFR 1.821(e) (see Box 21 for statement)		15.	_ 1	Authorization to fime as Incorporoges)	Treat ating	t Reply Requiring Extension of Petition for Extension of Tim	of ne (2
b. Specification Sequence Listing on:			•	- '	osto	ard (MPEP 503) (1 card)	
i. CD-ROM or CD-R (2 copies); or		16. 17.		•		ranslation (1 page); Form PT	·O-
 ii. ☐ paper [Total Pages] c. ☐ The contents of the computer readable form of the sequence listing and the sequence listing in the specification of the application are the same. 		17.	_ 2		l Aut	horization in the amount of	_
18. The FILING FEE is calculated as follows: (Claims as filed, less any claims cancelled by Amendment)							
Claims Number Filed	- 1	nber E		Rate		3750.00 (Basic Fee)	
Total claims [9] – 20 =		0		X \$18.00	\$		
Independent claims [3]-3=	1	0		X \$84.00	- \$		
MULTIPLE DEPENDENT CLAIM(S)				e) + 280.00			
TOTAL OF ABOVE CALCULA				nd by 16 -	9	5750.00	
Applicant claims small entity status. See 37 CFR 1.27. Fees are re			reduce	5u Dy /2. —	_	\$750.00	
19. Payment: A check in the amount of \$ is enclosed.							
 A check in the amount of \$ is enclosed. Credit Card Payment Form PTO-2038 Authorizing Payment in the amount of \$750.00 is enclosed. 							
The Commissioner is hereby authorized to charge any additional amount due or credit any overpayment to Deposit Account No. 14-0629.							

20A.	Ø	This application is an original application (not a continuation, divisional or continuation-in-part).			
20B.		This application is a continuation-in-part / continuation / divisional of prior Application No			
		The prior application was assigned to Examiner, Group Art Unit			
		The entire disclosure of the prior application is considered a part of the disclosure of the accompanying application and is hereby incorporated by reference.			
		This application is a continuation or divisional application (not a continuation-in-part) that:			
		(i) names as inventors the same or fewer than all the inventors named in the prior application; and			
		(ii) contains no matter that would have been new matter in the prior application; and			
		(iii) a copy of the executed oath or declaration in the prior application, showing the signature or an indication thereon that it was signed:			
		is enclosed.			
		will follow.			
		This application is a continuation or divisional application (not a continuation-in-part) that is being filed by less than all the inventors named in the prior application. In accordance with 37 C.F.R. §1.63(d)(2), the Commissioner is requested to delete the name(s) of the following person who are not inventors of the invention being claimed in this application:			
-	0	This application is a continuation-in-part, continuation or divisional application naming an inventor not named in the prior application. A newly executed oath or declaration: is enclosed. will follow.			
21.		A sequence listing in computer readable form in compliance with 37 C.F.R. §§ 1.821-1.825 was submitted on in prior Application No, filed Pursuant to 37 C.F.R. § 1.821(e), applicant hereby requests that the computer readable form of the sequence listing submitted in the above-referenced prior application be used as the computer readable form of the sequence listing for the new application. The paper or compact disk copy of the Sequence Listing in the new application is identical to the computer readable copy filed in the prior application.			
22.	Ø	This application claims foreign priority benefits under 35 USC 119(a)-(d) or 365(b) of any foreign application(s) listed below, or under 35 USC 365(a) or 365(b) of any PCT application listed below. Application No. 10239104.1 Country: Germany Day/Month/Year Filed: August 27, 2002			
23. Ac	ddress all co	orrespondence to the address associated with: CUSTOMER NO. 23859			
Name	of Attorney	//Agent: Gregory J. Kirsch Registration No.: 35,572			
Signat	ture:	My Date: 27 AVGUST 2003			
		Certificate of Express Mailing Under 37 C.F.R. § 1.10			
Unit	ed States P	that this correspondence, including any items indicated as attached or included, is being deposited with the ostal Service as Express Mail, Label No. EL992075877US, in an envelope addressed to: Mail Stop PATENT Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date indicated below.			
	Modeld	8/27/03			
Micha	ael Laird	Date			

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re	Application of)	
	Andreas Mühe	(
Serial	No.: Unassigned) Group Art Unit: Unassigned	
Filed:	Concurrently	Examiner: Unassigned	
For:	CRYSTAL-GROWING FURNACE, IN PARTICULAR A VERTICAL BRIDGMAN) CRYSTAL-GROWING FURNACE OR A VERTICAL GRADIENT FREEZE CRYSTAL-GROWING FURNACE HAVING A JACKET HEATER AND A METHOD OF REGULATING THE HEAT OUTPUT OF THE JACKET HEATER) Confirmation No.: Unassigned)))))))	1

AUTHORIZATION TO TREAT REPLY REQUIRING EXTENSION OF TIME AS INCORPORATING PETITION FOR EXTENSION OF TIME

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

NEEDLE & ROSENBERG, P.C.

Customer No.: 23859

Sir:

Pursuant to 37 C.F.R. §1.136(a)(3), the Commissioner is hereby requested and authorized to treat any concurrent or future reply in the above-identified application, requiring a petition for an extension of time for its timely submission, as incorporating a petition for extension of time for the appropriate length of time.

N&R - 183950

ATTORNEY DOCKET NO. 19232.0011U1

The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. 14-0629.

Respectfully submitted,

NEEDLE & ROSENBERG, P.C.

Gregory J. Kirsch

Registration No. 35,572

NEEDLE & ROSENBERG, P.C. Customer No. 23859 (404) 688-0770

CENTIFICATE OF EXPRESS MAILING OF DERVISOR OF THE ATTER	CERTIFICATE	OF EXPRESS MAILING UNDER 37 C.F.R. § 1.10	
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Modelful

8/27/0

Michael Laird

Date

City of New York, State of New York, County of New York

ATLANTA **BOSTON** BRUSSELS CHICAGO DALLA5 FRANKFURT HONG KONG HOUSTON LONDON LOS ANGELES MIAMI MINNEAPOLIS NEW YORK PHILADELPHIA SAN DIEGO SAN FRANCISCO SEATTLE

WASHINGTON, DC

I, Holly Schneider, hereby certify that the following is, to the best of my knowledge and belief, a true and accurate translation of the German patent application from German into English.

Holly Schneider

Sworn to before me this

Tuesday, July 29, 2003

Signature, Notary Public

PAUL D. RALSTON Notary Public, State of New York No. 01 RA6023B67 Qualified in Queens County Commission Expires May 3,

Stamp, Notary Public

ATTORNEY DOCKET NO. 19232.0011U1 Application No. Unassigned

CERTIFICATE OF EXPRESS MAILING U	NDER 37 C.F.R. § 1.10	
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Michael Laird	8/27/03 Date	